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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/866,068	05/24/2001	Chih-Chong Wang	60594-300401	6861	
7590 07/08/2004 PERKINS COIE, LLP			EXAMINER		
			PATEL, NIHIR B		
101 JEFFERSO MENLO PARK	ON DRIVE ζ, CA 94025-1114		ART UNIT	PAPER NUMBER	
,			3743  DATE MAILED: 07/08/2004	. //	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicant(s)   WANG ET AL									
Examiner   Nihir Patel   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   3743   374		Application No.	Appli	cant(s)	\N\				
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edentions criter may be evaluate under the provisions of 3 CFR 1.13(d)c), in or event, however, may a reply be timely filled after 50 (t) MONTHS from the mailing date of this communication, reply within the studency minimum of thinky 100) days will be considered timely.  I NO period for reply is specified above, the maximum datability period will go yet will large 150 (t) MONTHS from the mailing date of this communication.  Failve to reply within the studency, the maximum datability period will go yet will large 150 (t) MONTHS from the mailing date of this communication.  Failve to reply will be set of extended period for reply will, by studency part will be considered timely.  A type of the reply is specified than this enough at the the mailing date of this communication, even if timely filled, may reduce any  Status  1	Office Action Summary	Examiner	Art U	nit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Set SIX (5) MONTH'S from the mailing date of this communication.  If the period for reply specified does it less than this (5) (3) days, are greatly be timely filled developed from the statistic period with the statistic principle.  If NO period for reply specified does it less than the semble of the scenmunication.  If the period for reply specified does it less than the remotion about the statistic principle and will sopie SIX (5) MONTH'S from the mailing date of this communication.  If the period for reply specified does it less than the remotion about the statistic principle and will sopie SIX (5) MONTH'S from the mailing date of this communication, even if timely filled, may reduce any examed patent term deliplament. See 37 CFR 1704(b).  Status  1) Responsive to communication(s) filled on					<del>-</del>				
THE MAILING DATE OF THIS COMMUNICATION.  Editanisons of time may be available under the provisions of 3 CFR 1.13(b). In no event, however, may a reply be timely filed after Sk (6) MONTH's form the mailing date of this communication.  **RIND provided for reply is separable under the provisions of 3 CFR 1.13(b). In no event, however, may a reply be timely filed after Sk (6) MONTH's form the mailing date of this communication.  **RIND provided for reply is separable down, the machine place of the provision of the									
2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on 24 May 2001 is/are: a  accepted or b  objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The proposed drawing correction filed on is: a  approved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  11) The proposed drawing correction filed on plane is: a  approved by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b  Some * c  None of:  1. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  10 Acknowledgment is ma	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are ejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 24 May 2001 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Notice of References Cited (PTO-892)  Notice of References Cited (PTO-892)  Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) filed on	·							
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8	6)⊠ Claim(s) <u>1,2,4,5,8-17</u> is/are rejected.								
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10) ☐ The drawing(s) filed on 24 May 2001 is/are: a ☐ accepted or b ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) ☐ The proposed drawing correction filed on is: a ☐ approved b ☐ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)	Application Papers								
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Art Unit: 3743

#### **DETAILED ACTION**

#### Response to Arguments

In view of an phone interview with the applicant on February 11<sup>th</sup>, 2004, PROSECUTION IS HEREBY REOPENED.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final)

Applicant's arguments, see page 7, filed October 21<sup>st</sup>, 2002, with respect to claims 1, 2, 4, 5, and 8 through 17 have been fully considered and are persuasive. The finality of the office action dating back to July16th, 2002 has been withdrawn.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5,8,9 and 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Shimada et al. U.S. Patent No. 5,838,064. Referring to claim 17, Shimada discloses a supporting member for cooling means and electronic package using the same that comprises a heatsink (43); a thermal pad (44), stuck to a bottom of the heatsink (43); and a stabilization plate (12), stuck to the bottom of the heatsink (43), wherein the stabilization plate (12) is set around the thermal pad (44) for making the thermal pad (44) closely contact the die of the chip (40). Refer to figure 3.

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Referring to claim 5, Shimada discloses a supporting member for cooling means and electronic package using the same that comprises a stabilization plate (12); and a heatsink (43) stuck with the stabilization plate (12), wherein the heatsink (43) comprises a right portion and a left portion respectively having a first plurality of cooling fins and a second plurality of cooling fins and the second cooling fins are less than the first cooling fins. Refer to figure 3.

Referring to claim 8, Shimada's invention further comprises a thermal pad (44) located under the heatsink (43) through which heat from socket is conducted to the heatsink (43). Refer to figure 3.

Referring to claim 9, Shimada shows that the stabilization plate (12) surrounds the thermal pad (44) for making the thermal pad (44) closely compact to the die when the heatsink (43) is located on the die. Refer to figure 3.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,10,15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable Shimada et al. U.S. Patent No. 5,838,064 in view of Glenn et al. U.S. Patent No. 5,596,485. Referring to claims 1 and 10, Shimada discloses the applicant's invention as claimed with the exception of providing a stabilization plate (12) that has a smaller thickness than the die.

Glenn discloses a plastic packaged integrated circuit with heat spreader that does state that the stabilization plate can be made of any dimension desired. Therefore it would be obvious Application/Control Number: 09/866,068

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to modify Shimada's invention to provide a stabilization plate that has a smaller thickness than the die so that the heat sink takes up less space.

Referring to claims 2,15, and 16, Shimada discloses the applicant's invention as claimed with the exception of stating that the stabilization plate is an n-shaped slice in a top view.

Glenn discloses a plastic packaged integrated circuit with heat spreader that does state that the stabilization plate can be made of any shape and size. Therefore it would be obvious to modify Shimada's invention by stating that the stabilization plate can be any shape and size in order to meet the needs of the customers.

Claims 4 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada et al. U.S. Patent No. 5,838,064 in view of Feinberg et al. U.S. Patent No. 5,060,114.

Shimada discloses the applicant's invention as claimed with the exception of providing a stabilization plate that has a fingerprint thereon after being pressed by a finger, but the fingerprint disappears right away.

Feinberg discloses a conformable pad with thermally conductive additive for heat dissipation that does provide a stabilization plate that has a fingerprint thereon after being pressed by a finger, but the fingerprint disappears right away. Therefore it would be obvious to modify Shimada's invention by providing a stabilization plate that has a fingerprint thereon after being pressed by a finger, but the fingerprint disappears right away in order to provide a closer contact between the heatsink and the chip.

Referring to claims 12,13, and 14 the applicant claims that the stabilization plate comprises of two bars respectively having length of about 49.29 to about 49.31 millimeters in a top view, a lateral bar having a length of about 48.69 millimeters to about 48.71 millimeters in a

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top view, and the bars respectively having a width of about 9.99 to about 10.01 millimeters in a top view. It is obvious to one in the ordinary skill of the art that the length and width of the bars is simply a matter of design choice since it really depends on where the invention is going to be

applied.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Nihir Patel whose telephone number is (703) 306-3463. The examiner can

normally be reached on Monday-Friday from 7:30 am to 4:30 pm. If attempts to reach the

examiner by telephone are unsuccessful the examiner supervisor Henry Bennett can be reached

at (703) 308-0101.

NP

June 16, 2004

/Hepry/g/epriett

pervisor/Patent Examiner

Group 3700

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